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Amer Math Soc
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A. Zarelua, 4 pp.

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4 pp.

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Amer Math Soc
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Amer Math Soc
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1962, pp 743-746.

XIX AIP

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NASA TT F-8263

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3 pp.

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Aug 63

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NLR Ref: 9027.02 1964 (3352)
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Order from ATS

ATS-75P62R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1962,
v. 144, no. 4, p. 778-780.

DESCRIPTORS: *Clouds, Precipitation, Control,
*Hail, Production.

(Earth Sciences--Meteorology, TT, v. 8, no. 11)

62-34181

- I. Sulakvelidze, G. K.
- II. ATS-75P62R
- III. Associated Technical Services,
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Office of Technical Services

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RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 4,
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NASA TT F-8848

Sci-Chem
May 64
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FORMATION MECHANISM OF SECONDARY PRODUCTS
IN HIGH TEMPERATURE ETHANE CRACKING.
[1963] 6p. 3 refs.

Order from OIS or SLA \$1.10

63-18423

Trans. of Akad[emiya] Nauk SSSR. [Doklady] 1962,
v. 144 [no. 4] p. 817-820.

DESCRIPTORS: *Ethanes, *Ethylenes, *Methanes,
*Acetylenes, *Propanes, *Propenes, *Butanes, *Butenes,
*Butadienes, *Chemical reactions, Decomposition,
Pyrolysis.

The work was devoted to investigation of the formation
mechanism of main secondary products during high
temperature cracking of ethane to ethylene. Forma-
tion of CH_4 , C_2H_2 , C_3H_8 , C_3H_6 , C_4H_{10} , C_4H_8 and
 C_4H_6 was investigated. (Author)
(Chemistry--Organic, IT, v. 10, no. 8)

63-18423

I. Brodskii, A. M.
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Office of Technical Services

The Influence of the Concentration of Chemically
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Optimization in a Sequence of Ideally Mixed Reactors,
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Microautoradiographic Study of the Regulating
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Quantitative Distribution of Mollusks of the Genus
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CB

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Competitive Relationships Between CO_2 and Other Oxidants
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4

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Nov 63

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Amer Math Soc
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Vol III, No 3

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Nov 62

On Dynamical Systems Without Uniqueness, as Semi-groups of Non-Singlevalued Mappings of a Topological Space, by I. U. Bronsteyn, 4 pp.

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Amer Math Soc
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Asymptotic Behavior of Fundamental Solutions of
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and a Problem With Conditions Imposed at Infinity,
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Rings Over Which Flat Modules Are Free, by "
V. E. Govorov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,
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Amer Math Soc
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Mappings, by Ralph DeMarr, 3 pp.

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Amer Math Soc
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On the Finite Π -Conjugacy of Groups, by
B. V. Kazackov, 2 pp.

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Amer Math Soc
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Vol III, No 3

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Statistically Similar Zones of Linear Type, by
Ju. V. Linnik, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, ~~XXXXXX~~ Vol CXLIV,
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Amer Math Soc
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Amer Math Soc
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Amer Math Soc
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On Subdirectly Indecomposable Semigroups, by
B. M. Sain, 4 pp.

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SIMULATION OF PRODUCTIVE PROCESSES ON COM-
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RUSSIAN, PER, DOKLADY AKADEMII NAUK SSSR,
VOL ~~XXXX~~, NO 5, 1962, PP 1003-1006.

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JPRS 15732

SCI-ENGR
OCT. 62

214,997

COMPLETENESS OF THE SYSTEM OF UNRELIABLE ELEMENTS
REALIZING THE FUNCTIONS OF THE ALGEBRA OF LOGIC,
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JPRS 15732

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The Influence of Magnetic Fields on the Shapes of
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The Problem of Two-Particle Bound States for a
Nonideal Fermi-Dirac System, by V. V. Tolmachev,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,
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AIP

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X-Ray Investigation of the Effect of Hydrostatic Pressure on the Structure of Barium Titanate, by S. S. Kabalkina, L. F. Vereshchagin, 3 pp.

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AIP

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FTD-TT-62-1795

Sci-phys
Apr 63

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Neutralization of Slow Ions and Deactivation of
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V. I. Rydnik, B. M. Yavorski, 3 pp.

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1962, pp 1026-1029.

AIP

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Aug 63

Relative Localization of a Gravitational Field, by
Yu. A. Rylov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,
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AIP

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Kolobikhin, V. A., Tyuryaev, L. Ya. and others.
PREPARATION OF 1, 3-BUTADIENE BY OXIDATIVE
DEHYDROGENATION OF n-BUTENES. 15 Oct 62, 5p.
2 refs.

Order from OTS or SLA \$1.10

63-10095

Trans. of Akadem[ia] Nauk SSSR, Dokl[ady] 1962,
v. 144 [no. 5] p. 1053-1055.

Another trans. is available from ATS \$5.25 as
ATS-77P64R [1962] 3p.

DESCRIPTORS: *Butenes, Oxidation, Dehydrogenation,
*Butadienes, Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 9, no. 11)

63-10095

I. Kolobikhin, V. A.
II. Tyuryaev, L. Ya.

Office of Technical Services

The Catalytic Properties of Chelate Polymers,
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No 5, 1962, pp 1069-1072. 9668332

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Sci-chem
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1962, pp 1094-1097.

*SLA

Sci - Electricity,
Phys
Oct 62

Ershler, B.V. and Byakov, V.M.
DE L'APPLICATION DES ÉQUATIONS DE CINÉTI-
QUE HOMOGÈNE À LA RADIOLYSE AUX HAUTES
INTENSITÉS D'IRRADIATION (O Primenimosti
Uravenni Gomogennoi Kinetiki k Radiolizie Pri
Vysokikh Intensivnykh Izlucheniya) (The Appli-
cation of Homogeneous Kinetic Equations to Radioly-
sis at High Radiation Intensities). 8p. (foreign text
included) 8 refs. CNRS-VIII bis 842.
Order from OTS, ETC or CNRS \$1.10 TT-63-26606

Trans. in French of Akademiya Nauk SSSR. Dokla-
dy, 1962, v. 144, no. 5, p. 1103-1104.

DESCRIPTORS: Reaction kinetics, *Radiation
chemistry, Iron compounds, Sulfates, Electron
beams.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-63-26606

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- II. Byakov, V.M.
- III. CNRS-VIII bis 842
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Recherche Scientifique,
Paris

Office of Technical Services
European Translations Centre

Drushchits, V. V. and Shimanakil, V. N.
ON THE MAGNITUDE OF THE PALEOZOIC ERA
(Ob Ob'eme Paleozoiskoi Bry) tr. by Ivan Mitin.
1963 [11]p. 12 refs.
Order from OTS or SLA \$1.60

63-19587

Trans. of Akademiya Nauk SSSR. Doklady, 1962,
v. 144, no. 5, p. 1115-1118.

DESCRIPTORS: *Paleontology, *Stratigraphy, Geologic
age determination, Geology.

It is proposed that the Paleozoic era be divided not into
three but two parts, and that each of these parts be
regarded as an independent era. The advisability of
such a subdivision of the Paleozoic era is supported
with several reasons.

(Earth Sciences--Geology, TT, v. 10, no. 12)

63-19587

1. Title: Paleozoic
- I. Drushchits, V. V.
- II. Shimanakil, V. N.
- III. Geological Survey,
Denver, Colo.

Office of Technical Services

Heat Tolerance of Muscles and Cholinesterase of
Muscle Homogenates of Goldfish From a Hot Spring
and From Ordinary Waters, by A. A. Kusakina, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1160-1162.

CB
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Sci -
Nov 63

Accumulation and Excretion of Ruthenium-106, Cerium-144,
and Promethium-147 by Caddis Halesus Interpunctatus
Zett, by A. B. Getsova, G. A. Volkova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1163-1164.

CB
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Sci -
Nov 63

Over-All Radiosensitivity of Organisms and Sensitivity of
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Yu. Ya. Kerkis, L. I. Lebedeva, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section, Vol CXLIV,
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Fate of Catechins in the Animal Organism, by
M. N. Zaprometov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1168-1171.

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Shift of the Maximum of the Chief Chlorophyll Absorption
Band Towards the Long Wave End of the Spectrum, by
E. A. Alulova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1172-1173.

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The Role of Scandium Compounds in the Oxidation-
Reduction Processes of Plants, by . K. Dobrolyubskii,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1174-1177.

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Cytophysiological Analysis of Intraspecific
Differentiation of Takydromus Lizards, by
B. P. Ushakov, 3 pp.

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Nov 63

A Survey of Fish Leeches (Hirudinea, Phiscicolidae)
From the Bering and Okhotsk Seas and From the Sea
of Japan, by V. M. Epshtein,

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1181-1184.

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Additional Vanes in the Pterylosis of the Avian
Ear. Their Structure and Function, by V. D. Il'ichev,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
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Reflex Changes of the Rhythm of Auricles and Ventricles
Associated ~~and~~ With Respiration, by E. B. Babskii,
L. S. Ul'yaninskii, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1189-1191.

CB

Sci -
Nov 63

The Influence of Polarization of the Semicircular
Canal on the Monosynaptic Vestibulomotor Effect
in Pigeons, by I. V. Orlov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,
Vol CXLIV, No 5, 1962, pp 1192-1195.

CB

Sci -
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